George Mason University

AY 2019-2020

VSE : BS Information Technology

Student Learning Outcome Assessed - Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline

Measure 1 (Required)

How was achievement of the student learning outcome measured? Discuss what work/assignment(s) was/were assessed and describe the instrument (rubric, etc.) or criteria (scoring sheet, exam answer key, etc.) that was used to measure learning.	Homework 10: Students are required to design a function using a four column table technique that has been used throughout the course in describing functions of all kinds. The four columns are: name, purpose, required input, expected result.
Where did this assessment take place? Indicate the course and/or milestone (internship, exit interview, qualifying exam, thesis/dissertation defense, etc.).	IT102 student exemplars
Who was primarily responsible for this assessment?	Irene Bruno
How many students were assessed?	30
What is the achievement target for this assessment?	At least 70% (do not change it) of students complete the task successfully (achieve at an average or above average level).
Supporting Documentation (Attach rubrics, scoring sheets, or exam questions)	Fall2019_IT102StudentOutcomeAssessmentReport.docx
Is this a written communication outcome?	Yes
Is this an OSCAR/undergraduate research outcome?	No
This Student Learning Outcome was:	
Findings	
Findings: What are the results of the assessment of this student learning outcome?	Results: In the Fall 2019 semester, 66% of the students achieved at an above average level on this assessment 13% of the students achieved at an average level on this assessment 13% of the students achieved at an below average level on this assessment 8% of the students achieved at an unacceptable level on this assessment
Analysis of Results: Based on the results for this student learning outcome assessment, what are the major conclusions? Describe the strengths and or challenges in your program that impact these results. Be sure to note areas that will require special/continued attention.	The Performance Threshold for Student Outcome 2 was met; At least 79% of students complete the task successfully (achieve at an average or above average level).
Supporting Documentation	ABETMeetingMinutes_Fall2019.docx
Recommendations	
Since the last assessment cycle, what improvements have been made to increase student achievement of this outcome? Improvements may include new assessment plans, processes, instruments, assignments, faculty training and or curricular changes.	SemesterChangeReasonDecision Approved / Made bySpring 2019Lecture Materials changed to include a more consistent application of the four-column function table used throughout the courseStudent overall performance on the assessments regarding functions has improved with the use of function tablesIrene Bruno and all IT102 instructors Fall 2018Changed to Third Edition of textErrors in Second Edition were addressed and additional support for function tables provided in the Third EditionIrene BrunoFall 2018Chapters involving the application of programming skills include a more detailed focus on flowcharts.The goal of the course is not to be a first programming class, it is to see the connection between the concepts in Discrete Math and programming as well as provide a gentle introduction to Program DesignIrene Bruno and all IT102 instructorsSpring 2018All lecture materials were updatedTo provide more examplesIrene BrunoFall 2017All instructors provided with "Starter Notes" to use at their discretion.One of the instructors tested this format and suggested that it worked well.All IT102 instructors
Supporting Documentation	(Supporting Documentation Included) Fall2019_IT102StudentOutcomeAssessmentReport.docx
Improvement Plans/Actions	
RESPONSE REQUIRED: How will these findings be used to improve student learning and achievement of this outcome?	The Performance Indicator for Student Outcome 2 was appropriate. The Performance Threshold for Student Outcome 2 was met; At least 79% of students complete the task successfully (achieve at an average or above average level). Therefore, no more improvements are needed.
Changes to be made based on the findings (OPTIONAL):	
Additional Information	
What resources will be needed to make the planned improvement(s)?	
Who is primarily be responsible for the improvement plan?	
What is the target date for implementation?	

Student Learning Outcome Assessed - Communicate effectively in a variety of professional contexts

Measure 1 (Required)

How was achievement of the student learning outcome measured? Discuss what work/assignment(s) was/were assessed and describe the instrument (rubric, etc.) or criteria (scoring sheet, exam answer key, etc.) that was used to measure learning.	Project part II: Website - Students create a basic website using HTML 5 to share their research on a topic of interest in information technology.
Where did this assessment take place? Indicate the course and/or milestone (internship, exit interview, qualifying exam, thesis/dissertation defense, etc.).	IT104 student exemplars
Who was primarily responsible for this assessment?	Kamaljeet Sanghera
How many students were assessed?	100
What is the achievement target for this assessment?	At least 70% of students complete the task successfully (achieve at an average or above average level).

Supporting Documentation (Attach rubrics, scoring sheets, or exam questions)	(Supporting Documentation Included) Fall2019_IT104StudentOutcomeAssessmentReport.docx
Is this a written communication outcome?	Yes
Is this an OSCAR/undergraduate research outcome?	No
This Student Learning Outcome was:	
Findings	
Findings: What are the results of the assessment of this student learning outcome?	Results: In the Fall 2019 semester, 40% of the students achieved at an above average level on this assessment 30% of the students achieved at an average level on this assessment 21% of the students achieved at an below average level on this assessment 19% of the students achieved at an unacceptable level on this assessment
Analysis of Results: Based on the results for this student learning outcome assessment, what are the major conclusions? Describe the strengths and or challenges in your program that impact these results. Be sure to note areas that will require special/continued attention.	The Performance Threshold for Student Outcome 3 was met; At least 70% of students complete the task successfully (achieve at an average or above average level).
Supporting Documentation	(Supporting Documentation Included) ABETMeetingMinutes_Fall2019.docx
Recommendations	
Since the last assessment cycle, what improvements have been made to increase student achievement of this outcome? Improvements may include new assessment plans, processes, instruments, assignments, faculty training and or curricular changes.	SemesterChangeReasonDecision Approved / Made byFall 2019Piloted new case studiesTo apply concepts to real world scenarios Dr. SangheraSpring 2018 Replaced introduction to programming hands-on activity from Java to PythonTo keep it simple for students so it is easier for them to grasp core concepts and not struggle with OO in a 100 level introduction to computing courseDr. Sanghera
Supporting Documentation	(Supporting Documentation Included) Fall2019_IT104StudentOutcomeAssessmentReport.docx
Improvement Plans/Actions	
RESPONSE REQUIRED: How will these findings be used to improve student learning and achievement of this outcome?	The Performance Indicators for Student Outcome 3 was appropriate. The Performance Threshold for Student Outcome 3 was met; At least 70% of students complete the task successfully (achieve at an average or above average level). Therefore, no more improvements are needed.
Changes to be made based on the findings (OPTIONAL):	
Additional Information	
What resources will be needed to make the planned improvement(s)?	
Who is primarily be responsible for the improvement plan?	
What is the target date for implementation?	

Student Learning Outcome Assessed - Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles

Measure 1 (Required)	
How was achievement of the student learning outcome measured? Discuss what work/assignment(s) was/were assessed and describe the instrument (rubric, etc.) or criteria (scoring sheet, exam answer key, etc.) that was used to measure learning.	Project part I: Research Paper - Students are required to research on a topic related to IT field focusing on its impact on security, ethical, legal, and social issues.
Where did this assessment take place? Indicate the course and/or milestone (internship, exit interview, qualifying exam, thesis/dissertation defense, etc.).	IT104 student exemplars
Who was primarily responsible for this assessment?	Kamaljeet Sanghera
How many students were assessed?	100
What is the achievement target for this assessment?	At least 70% of students complete the task successfully (achieve at an average or above average level).
Supporting Documentation (Attach rubrics, scoring sheets, or exam questions)	(Supporting Documentation Included) Fall2019_IT104StudentOutcomeAssessmentReport.docx
Is this a written communication outcome?	Yes
Is this an OSCAR/undergraduate research outcome?	No
This Student Learning Outcome was:	Met
Findings	
Findings: What are the results of the assessment of this student learning outcome?	Results: In the Fall 2019 semester, 35% of the students achieved at an above average level on this assessment 45% of the students achieved at an average level on this assessment 10% of the students achieved at an below average level on this assessment 10% of the students achieved at an unacceptable level on this assessment
Analysis of Results: Based on the results for this student learning outcome assessment, what are the major conclusions? Describe the strengths and or challenges in your program that impact these results. Be sure to note areas that will require special/continued attention.	The Performance Threshold for Student Outcome 4 was met; At least 80% of students complete the task successfully (achieve at an average or above average level).
Supporting Documentation	ABETMeetingMinutes_Fall2019.docx
Recommendations	
Since the last assessment cycle, what improvements have been made to increase student achievement of this outcome? Improvements may include new assessment plans, processes, instruments, assignments, faculty training and or curricular changes.	SemesterChangeReasonDecision Approved / Made byFall 2019Piloted new case studiesTo apply concepts to real world scenariosDr. SangheraSpring 2018Replaced introduction to programming hands-on activity from Java to PythonTo keep it simple for students so it is easier for them to grasp core concepts and not struggle with OO in a 100 level introduction to computing courseDr. Sanghera
Supporting Documentation	(Supporting Documentation Included) Fall2019_IT104StudentOutcomeAssessmentReport.docx
Improvement Plans/Actions	
RESPONSE REQUIRED: How will these findings be used to improve student learning and achievement of this outcome?	The Performance Indicators for Student Outcome 4 was appropriate. The Performance Threshold for Student Outcome 4 was met; At least 80% of students complete the task successfully (achieve at an average or above average level). Therefore, no more improvements are needed.
Changes to be made based on the findings (OPTIONAL):	
Additional Information	
What resources will be needed to make the planned improvement(s)?	

Who is primarily be responsible for the improvement plan?	
What is the target date for implementation?	

Student Learning Outcome Assessed - Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline

Measure 1 (Required)

How was achievement of the student learning outcome measured? Discuss what work/assignment(s) was/were assessed and describe the instrument (rubric, etc.) or criteria (scoring sheet, exam answer key, etc.) that was used to measure learning.	Group Project-Phase III supporting undergraduate research scholarship and library survey.
Where did this assessment take place? Indicate the course and/or milestone (internship, exit interview, qualifying exam, thesis/dissertation defense, etc.).	IT105 student exemplars
Who was primarily responsible for this assessment?	Setareh Rafatirad
How many students were assessed?	30
What is the achievement target for this assessment?	At least 70% of students in the online section completed the task successfully (achieve at an acceptable level).
Supporting Documentation (Attach rubrics, scoring sheets, or exam questions)	Fall2019_IT105StudentOutcomeAssessmentReport.docx
Is this a written communication outcome?	Yes
Is this an OSCAR/undergraduate research outcome?	No
This Student Learning Outcome was:	

Findings

Findings: What are the results of the assessment of this student learning outcome?	Results: In the Fall 2019 semester, 65% of the students achieved at an above average level on this assessment 21% of the students achieved at an average level on this assessment 8% of the students achieved at a below average level on this assessment. 6% of the students achieved at an unacceptable level on this assessment
Analysis of Results: Based on the results for this student learning outcome assessment, what are the major conclusions? Describe the strengths and or challenges in your program that impact these results. Be sure to note areas that will require special/continued attention.	The Performance Threshold for Student Outcome 5 was met; At least unknown % of students complete the task successfully (achieve at an average or above average level).
Supporting Documentation	(Supporting Documentation Included) ABETMeetingMinutes_Fall2019.docx

Recommendations

Since the last assessment cycle, what improvements have been made to increase student achievement of this outcome? Improvements may include new assessment plans, processes, instruments, assignments, faculty training and or curricular changes.	SemesterChangeReasonDecision Approved / Made bySpring 2018- Re-visited the course content related to undergraduate research scholarship included in the course. Worked with Mindtap Cengage representatives to remove minor confusions about the textbook. Some of the exercises were old.Setareh RafatiradFall 2017Created a new customized ebook for this class. This course has material pertaining to multiple textbooks and sources which made it a cumbersome and expensive task for students to purchase multiple textbooks.Setareh RafatiradFall 2017All course materials (e.g., lecture slides, video recordings, Assignments, etc.) were updated in consistency with the content. To be consistent with the new ebook. Setareh Rafatirad
Supporting Documentation	(Supporting Documentation Included) Fall2019_IT105StudentOutcomeAssessmentReport.docx

Improvement Plans/Actions

RESPONSE REQUIRED: How will these findings be used to improve student learning and achievement of this outcome?	The Performance Indicators for Student Outcome 5 was worded appropriately, but there should be a different PI and Student Exemplars for each SO. The Performance Threshold for Student Outcome 5 was met; At least unknown % of students complete the task successfully (achieve at an average or above average level).
Changes to be made based on the findings (OPTIONAL):	Other

Additional Information

What resources will be needed to make the planned improvement(s)?	1. Updated IT105 SOAR and Student Exemplars (for each SO) will be uploaded. 2.Upload the Solution file for Assignment 6-Q3.
Who is primarily be responsible for the improvement plan?	Setareh Rafatirad
What is the target date for implementation?	05/30/2020